

ABSTRACT**EXPANDED BEAD FOAMS FROM
PROPYLENE-DIENE COPOLYMERS AND THEIR USE**

Disclosed herein is an expanded olefin resin comprising a copolymer base resin and a blowing agent, wherein the copolymer base resin is comprised of about 90 to 99.999 weight percent of an olefin and about 0.001 to 10 weight percent of an α - ω diene, wherein the copolymer base resin has a weight average molecular weight of about 30,000 to 500,000 Daltons, a crystallization temperature in a range from 115°C to 135°C, and a melt flow rate in a range from 0.1 dg/min to 100 dg/min as determined using ASTM D-1238 at 230°C and 2.16 kg load.